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Tel: +91 80 2318 6230, Fax: +91 80 2318 6230.
info@robustmaterials.com, www.robustmaterials.com

TEST REPORT

To,	
BBMP	Report No. : RE-017/15
Asst Executive Engineer, Ward No.12,	Report date : 15/12/2015
Shtthalli Sub Division, Dasarahalli Zone,	Ref. : Test Request Form
Bangalore.	Ref. Date : 11/12/2015
	Job Order No : RE/1512/0017
	Date : 11/12/2015
	Date of Analysis : 11/12/2015 to 15/12/2015

Sample Particulars: One sample of Hesaraghatta main road Marishan layout borewell water.

Sample Qty : 2 Ltrs

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500 : 2012	Maximum Permissible Limit IS 10500 : 2012	Protocol
Description: Colorless liquid					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part – 4) : 1983
2	Odor	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5) : 1983
3	Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 8) : 1984
4	pH Value	7.9	6.5 – 8.5	No relaxation	IS 3025 (Part – 11) : 1983
5	Turbidity, NTU	0.3	1	5	IS 3025 (Part – 10) : 1984
6	Chloride as Cl, mg/L	147.26	250	1000	IS 3025 (Part – 32) : 1988
7	Total hardness as $CaCO_3$, mg/L	467.7	200	600	IS 3025 (Part – 21) : 2009
8	Calcium as Ca, mg/L	101.5	75	200	IS 3025 (Part – 40) : 1991
9	Magnesium as Mg, mg/L	52.0	30	100	IS 3025 (Part – 46) : 1994
10	Dissolved Solids, mg/L	496	500	2000	IS 3025 (Part – 16) : 1984
11	Sulphate as SO_4, mg/L	36.5	200	400	IS 3025 (Part – 24) : 1986
12	Fluoride as F, mg/L	0.44	1.0	1.5	APHA 22nd Edition
13	Chromium as Cr^+, mg/L	BDL	0.05	No relaxation	IS 3025 (Part – 52) : 2003
14	Residual Free Chlorine, mg/L	<0.2	0.2	1	IS 3025 (Part – 26) : 1986
15	Alkalinity as $CaCO_3$, mg/L	464.4	200	600	IS 3025 (Part – 23) : 1986
16	Nitrates as NO_3, mg/L	20.8	45	No relaxation	IS 3025 (Part – 34) : 1988
17	Copper as Cu, mg/L	BDL	0.05	1.5	IS 3025 (Part – 42) : 1992
18	Iron as Fe, mg/L	BDL	0.3	No relaxation	IS 3025 (Part – 53) : 2003
19	Manganese as Mn, mg/L	BDL	0.1	0.3	IS 3025 (Part – 59) : 2006
20	Phenolic compounds as C_6H_5OH, mg/L	Absent	0.001	0.002	IS 3025 (Part – 43) : 1992

Authorized Signatory

Subhashini B.V.

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TEST REPORT

To, **BBMP** Asst Executive Engineer, Ward No.12, Shtthalli Sub Division, Dasarahalli Zone, Bangalore.	Report No. : RE-017/15 Report date : 15/12/2015 Ref. : Test Request Form Ref. Date : 11/12/2015 Job Order No : RE/1512/0017 Date : 11/12/2015 Date of Analysis : 11/12/2015 to 15/12/2015
Sample Particulars: One sample of Hesaraghatta main road Marishan layout borewell water.	
	Sample Qty : 2Ltrs

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500 : 2012	Maximum Permissible Limit IS 10500 : 2012	Protocol
21	Mercury as Hg, mg/L	BDL	0.001	No relaxation	IS 3025 (Part – 48) : 1994
22	Cadmium as Cd, mg/L	BDL	0.003	No relaxation	IS 3025 (Part – 41) : 1992
23	Selenium as Se, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 56) : 2003
24	Arsenic as As, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 37) : 1988
25	Cyanide as CN, mg/L	Absent	0.05	No relaxation	APHA 22nd Edition
26	Lead as Pb, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 47) : 1994
27	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49) : 1994
28	Anionic detergents as MBAS, mg/L	Absent	0.20	1.0	Annex K of IS : 13428 : 2005
29	Aluminum as Al,mg/L	BDL	0.03	0.2	IS : 3025 (Part –55) : 2003
30	Boron as B, mg/L	BDL	0.5	1.0	APHA 22nd Edition

Note: BDL for Cr: 0.05, Cu: 0.05, Fe: 0.05, Mn:0.05, Hg: 0.005, Cd:0.01, Se:0.005, As:0.005, Pb:0.05, Al:0.02,B:0.3,Zn:0.05.

----------END OF THE REPORT----------

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Subhashini B.V.

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TEST REPORT

To, **BBMP** Asst Executive Engineer, Ward No.12, Shtthalli Sub Division, Dasarahalli Zone, Bangalore.	Report No. : RE-017/15 Report date : 15/12/2015 Ref. : Test Request Form Ref. Date : 11/12/2015 Job Order No : RE/1512/0017 Date : 11/12/2015 Date of Analysis : 11/12/2015 to 13/12/2015
Sample Particulars: One sample of Hesaraghatta main road Marishan layout borewell water.	**Sample Qty** : 300 ml

Microbiological Tests:

Sl. No.	Tests	Result	Limits Acceptable limits as per IS : 10500:2012	Protocol
Description: Colorless liquid filled in sterilized bottle.				
1	Coliform Organism / 100ml	Less than 1	Less than 1	IS 1622 – 1981
2	Escherichia coli / 100ml	Absent	Absent	IS 1622 – 1981

Remarks: The given water sample conforms to IS:10500-2012 specification for above tested parameters.

----------END OF THE REPORT----------

Ravi N.K.
AEW.12

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

Authorized Signatory

SubhashiniB.V.

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TEST REPORT

To, BBMP Asst Executive Engineer, Ward No.12, Shtthalli Sub Division, Dasarahalli Zone, Bangalore.	Report No. : RE-015/15 Report date : 15/12/2015 Ref. : Test Request Form Ref. Date : 11/12/2015 Job Order No : RE/1512/0015 Date : 11/12/2015 Date of Analysis : 11/12/2015 to 15/12/2015
Sample Particulars: One sample of Abbigere near industrial area borewell water.	
	Sample Qty : 2 Ltrs

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500 : 2012	Maximum Permissible Limit IS 10500 : 2012	Protocol
Description: Colorless liquid					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part – 4) : 1983
2	Odor	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5) : 1983
3	Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 8) : 1984
4	pH Value	7.8	6.5 – 8.5	No relaxation	IS 3025 (Part – 11) : 1983
5	Turbidity, NTU	0.2	1	5	IS 3025 (Part – 10) : 1984
6	Chloride as Cl, mg/L	133.0	250	1000	IS 3025 (Part – 32) : 1988
7	Total hardness as $CaCO_3$, mg/L	420.1	200	600	IS 3025 (Part – 21) : 2009
8	Calcium as Ca, mg/L	92.0	75	200	IS 3025 (Part – 40) : 1991
9	Magnesium as Mg, mg/L	46.2	30	100	IS 3025 (Part – 46) : 1994
10	Dissolved Solids, mg/L	478	500	2000	IS 3025 (Part – 16) : 1984
11	Sulphate as SO_4, mg/L	29.4	200	400	IS 3025 (Part – 24) : 1986
12	Fluoride as F, mg/L	0.38	1.0	1.5	APHA 22nd Edition
13	Chromium as Cr^{+}, mg/L	BDL	0.05	No relaxation	IS 3025 (Part – 52) : 2003
14	Residual Free Chlorine, mg/L	<0.2	0.2	1	IS 3025 (Part – 26) : 1986
15	Alkalinity as $CaCO_3$, mg/L	455.8	200	600	IS 3025 (Part – 23) : 1986
16	Nitrates as NO_3, mg/L	18.36	45	No relaxation	IS 3025 (Part – 34) : 1988
17	Copper as Cu, mg/L	BDL	0.05	1.5	IS 3025 (Part – 42) : 1992
18	Iron as Fe, mg/L	BDL	0.3	No relaxation	IS 3025 (Part – 53) : 2003
19	Manganese as Mn, mg/L	BDL	0.1	0.3	IS 3025 (Part – 59) : 2006
20	Phenolic compounds as C_6H_5OH, mg/L	Absent	0.001	0.002	IS 3025 (Part – 43) : 1992

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Sample Particulars: One sample of Abbigere near industrial area borewell water.	
	Sample Qty : 2Ltrs

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500 : 2012	Maximum Permissible Limit IS 10500 : 2012	Protocol
21	Mercury as Hg, mg/L	BDL	0.001	No relaxation	IS 3025 (Part – 48) : 1994
22	Cadmium as Cd, mg/L	BDL	0.003	No relaxation	IS 3025 (Part – 41) : 1992
23	Selenium as Se, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 56) : 2003
24	Arsenic as As, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 37) : 1988
25	Cyanide as CN, mg/L	Absent	0.05	No relaxation	APHA 22nd Edition
26	Lead as Pb, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 47) : 1994
27	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49) : 1994
28	Anionic detergents as MBAS, mg/L	Absent	0.20	1.0	Annex K of IS : 13428 : 2005
29	Aluminum as Al,mg/L	BDL	0.03	0.2	IS : 3025 (Part –55) : 2003
30	Boron as B, mg/L	BDL	0.5	1.0	APHA 22nd Edition

Note: BDL for Cr: 0.05, Cu: 0.05, Fe: 0.05, Mn:0.05, Hg: 0.005, Cd:0.01, Se:0.005, As:0.005, Pb:0.05, Al:0.02,B:0.3,Zn:0.05.

----------END OF THE REPORT----------

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Sample Particulars: One sample of Abbigere near industrial area borewell water.	**Sample Qty** : 300 ml

Microbiological Tests:

Sl. No.	Tests	Result	Limits Acceptable limits as per IS : 10500:2012	Protocol
Description: Colorless liquid filled in sterilized bottle.				
1	Coliform Organism / 100ml	Less than 1	Less than 1	IS 1622 – 1981
2	Escherichia coli / 100ml	Absent	Absent	IS 1622 – 1981

Remarks: The given water sample conforms to IS:10500-2012 specification for above tested parameters.

----------END OF THE REPORT----------

Ravi. N.K,
AEW-12

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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TEST REPORT

To,
BBMP
Asst Executive Engineer, Ward No.12,
Shtthalli Sub Division, Dasarahalli Zone,
Bangalore.

Report No.	: RE-014/15
Report date	: 15/12/2015
Ref.	: Test Request Form
Ref. Date	: 11/12/2015
Job Order No	: RE/1512/0014
Date	: 11/12/2015
Date of Analysis	: 11/12/2015 to 15/12/2015

Sample Particulars: One sample of Abbigere 3rd cross old village borewell water.

Sample Qty : 2 Ltrs

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500 : 2012	Maximum Permissible Limit IS 10500 : 2012	Protocol
Description: Colorless liquid					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part – 4) : 1983
2	Odor	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5) : 1983
3	Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 8) : 1984
4	pH Value	6.75	6.5 – 8.5	No relaxation	IS 3025 (Part – 11) : 1983
5	Turbidity, NTU	0.1	1	5	IS 3025 (Part – 10) : 1984
6	Chloride as Cl, mg/L	213.76	250	1000	IS 3025 (Part – 32) : 1988
7	Total hardness as $CaCO_3$, mg/L	150.6	200	600	IS 3025 (Part – 21) : 2009
8	Calcium as Ca, mg/L	30.14	75	200	IS 3025 (Part – 40) : 1991
9	Magnesium as Mg, mg/L	18.3	30	100	IS 3025 (Part – 46) : 1994
10	Dissolved Solids, mg/L	352	500	2000	IS 3025 (Part – 16) : 1984
11	Sulphate as SO_4, mg/L	9.6	200	400	IS 3025 (Part – 24) : 1986
12	Fluoride as F, mg/L	0.24	1.0	1.5	APHA 22nd Edition
13	Chromium as Cr^+, mg/L	BDL	0.05	No relaxation	IS 3025 (Part – 52) : 2003
14	Residual Free Chlorine, mg/L	<0.2	0.2	1	IS 3025 (Part – 26) : 1986
15	Alkalinity as $CaCO_3$, mg/L	124.7	200	600	IS 3025 (Part – 23) : 1986
16	Nitrates as NO_3, mg/L	5.6	45	No relaxation	IS 3025 (Part – 34) : 1988
17	Copper as Cu, mg/L	BDL	0.05	1.5	IS 3025 (Part – 42) : 1992
18	Iron as Fe, mg/L	BDL	0.3	No relaxation	IS 3025 (Part – 53) : 2003
19	Manganese as Mn, mg/L	BDL	0.1	0.3	IS 3025 (Part – 59) : 2006
20	Phenolic compounds as C_6H_5OH, mg/L	Absent	0.001	0.002	IS 3025 (Part – 43) : 1992

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Asst Executive Engineer, Ward No.12,	Report date	: 15/12/2015
Shtthalli Sub Division, Dasarahalli Zone,	Ref.	: Test Request Form
Bangalore.	Ref. Date	: 11/12/2015
	Job Order No	: RE/1512/0014
	Date	: 11/12/2015
	Date of Analysis	: 11/12/2015 to 15/12/2015
Sample Particulars: One sample of Abbigere 3rd cross old village borewell water.		
	Sample Qty	: 2Ltrs

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500 : 2012	Maximum Permissible Limit IS 10500 : 2012	Protocol
21	Mercury as Hg, mg/L	BDL	0.001	No relaxation	IS 3025 (Part – 48) : 1994
22	Cadmium as Cd, mg/L	BDL	0.003	No relaxation	IS 3025 (Part – 41) : 1992
23	Selenium as Se, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 56) : 2003
24	Arsenic as As, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 37) : 1988
25	Cyanide as CN, mg/L	Absent	0.05	No relaxation	APHA 22nd Edition
26	Lead as Pb, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 47) : 1994
27	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49) : 1994
28	Anionic detergents as MBAS, mg/L	Absent	0.20	1.0	Annex K of IS : 13428 : 2005
29	Aluminum as Al,mg/L	BDL	0.03	0.2	IS : 3025 (Part –55) : 2003
30	Boron as B, mg/L	BDL	0.5	1.0	APHA 22nd Edition

Note: BDL for Cr: 0.05, Cu: 0.05, Fe: 0.05, Mn:0.05, Hg: 0.005, Cd:0.01, Se:0.005, As:0.005, Pb:0.05, Al:0.02,B:0.3,Zn:0.05.

----------END OF THE REPORT----------

Authorized Signatory

Subhashini B.V.

Note: 1. The results relate only to the items tested. 2. Test certificate should not be reproduced except in full, without written approval of the laboratory. 3. The submitted samples are not drawn by the laboratory unless otherwise specified. 4. Endorsement of product is neither inferred nor implied. 5.Samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified. 6. This report cannot be used as an evidence in the court of law & should not be used in any advertising media without our special permission in writing. 7.Total liability of our lab is limited to the invoice amount. And any dispute arising out of this report is subject to Bangalore jurisdiction only.

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To, **BBMP** Asst Executive Engineer, Ward No.12, Shtthalli Sub Division, Dasarahalli Zone, Bangalore.	Report No. : RE-014/15 Report date : 15/12/2015 Ref. : Test Request Form Ref. Date : 11/12/2015 Job Order No : RE/1512/0014 Date : 11/12/2015 Date of Analysis : 11/12/2015 to 13/12/2015
Sample Particulars: One sample of Abbigere 3rd cross old village borewell water.	**Sample Qty** : 300 ml

Microbiological Tests:

Sl. No.	Tests	Result	Limits Acceptable limits as per IS : 10500:2012	Protocol
Description: Colorless liquid filled in sterilized bottle.				
1	Coliform Organism / 100ml	Less than 1	Less than 1	IS 1622 – 1981
2	Escherichia coli / 100ml	Absent	Absent	IS 1622 – 1981

Remarks: The given water sample conforms to IS:10500-2012 specification for above tested parameters.

----------END OF THE REPORT----------

Ravi.N.K.
AEW.12

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

Authorized Signatory

SubhashiniB.V.

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Tel: +91 80 2318 6230, Fax: +91 80 2318 6230.
info@robustmaterials.com, www.robustmaterials.com

TEST REPORT

To,	Report No.	: RE-012/15
BBMP	Report date	: 15/12/2015
Asst Executive Engineer, Ward No.12,	Ref.	: Test Request Form
Shtthalli Sub Division, Dasarahalli Zone,	Ref. Date	: 11/12/2015
Bangalore.	Job Order No	: RE/1512/0012
	Date	: 11/12/2015
	Date of Analysis	: 11/12/2015 to 15/12/2015

Sample Particulars: One sample of Shetthalli gate palya colony near railway track borewell water.

Sample Qty : 2 Ltrs

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500 : 2012	Maximum Permissible Limit IS 10500 : 2012	Protocol
Description: Colorless liquid					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part – 4) : 1983
2	Odor	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5) : 1983
3	Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 8) : 1984
4	pH Value	6.8	6.5 – 8.5	No relaxation	IS 3025 (Part – 11) : 1983
5	Turbidity, NTU	0.2	1	5	IS 3025 (Part – 10) : 1984
6	Chloride as Cl, mg/L	228.0	250	1000	IS 3025 (Part – 32) : 1988
7	Total hardness as $CaCO_3$, mg/L	142.7	200	600	IS 3025 (Part – 21) : 2009
8	Calcium as Ca, mg/L	27.0	75	200	IS 3025 (Part – 40) : 1991
9	Magnesium as Mg, mg/L	18.3	30	100	IS 3025 (Part – 46) : 1994
10	Dissolved Solids, mg/L	372.0	500	2000	IS 3025 (Part – 16) : 1984
11	Sulphate as SO_4, mg/L	11.5	200	400	IS 3025 (Part – 24) : 1986
12	Fluoride as F, mg/L	0.27	1.0	1.5	APHA 22nd Edition
13	Chromium as Cr^+, mg/L	BDL	0.05	No relaxation	IS 3025 (Part – 52) : 2003
14	Residual Free Chlorine, mg/L	<0.2	0.2	1	IS 3025 (Part – 26) : 1986
15	Alkalinity as $CaCO_3$, mg/L	137.6	200	600	IS 3025 (Part – 23) : 1986
16	Nitrates as NO_3, mg/L	5.3	45	No relaxation	IS 3025 (Part – 34) : 1988
17	Copper as Cu, mg/L	BDL	0.05	1.5	IS 3025 (Part – 42) : 1992
18	Iron as Fe, mg/L	BDL	0.3	No relaxation	IS 3025 (Part – 53) : 2003
19	Manganese as Mn, mg/L	BDL	0.1	0.3	IS 3025 (Part – 59) : 2006
20	Phenolic compounds as C_6H_5OH, mg/L	Absent	0.001	0.002	IS 3025 (Part – 43) : 1992

Authorized Signatory
Subhashini B.V.

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TEST REPORT

To, **BBMP** Asst Executive Engineer, Ward No.12, Shtthalli Sub Division, Dasarahalli Zone, Bangalore.	Report No. : RE-012/15 Report date : 15/12/2015 Ref. : Test Request Form Ref. Date : 11/12/2015 Job Order No : RE/1512/0012 Date : 11/12/2015 Date of Analysis : 11/12/2015 to 15/12/2015
Sample Particulars: One sample of Shetthalli gate palya colony near railway track borewell water.	
	Sample Qty : 2Ltrs

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500 : 2012	Maximum Permissible Limit IS 10500 : 2012	Protocol
21	Mercury as Hg, mg/L	BDL	0.001	No relaxation	IS 3025 (Part – 48) : 1994
22	Cadmium as Cd, mg/L	BDL	0.003	No relaxation	IS 3025 (Part – 41) : 1992
23	Selenium as Se, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 56) : 2003
24	Arsenic as As, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 37) : 1988
25	Cyanide as CN, mg/L	Absent	0.05	No relaxation	APHA 22nd Edition
26	Lead as Pb, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 47) : 1994
27	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49) : 1994
28	Anionic detergents as MBAS, mg/L	Absent	0.20	1.0	Annex K of IS : 13428 : 2005
29	Aluminum as Al,mg/L	BDL	0.03	0.2	IS : 3025 (Part –55) : 2003
30	Boron as B, mg/L	BDL	0.5	1.0	APHA 22nd Edition

Note: BDL for Cr: 0.05, Cu: 0.05, Fe: 0.05, Mn:0.05, Hg: 0.005, Cd:0.01, Se:0.005, As:0.005, Pb:0.05, Al:0.02,B:0.3,Zn:0.05.

----------END OF THE REPORT----------

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TEST REPORT

To, BBMP Asst Executive Engineer, Ward No.12, Shtthalli Sub Division, Dasarahalli Zone, Bangalore.	Report No. : RE-012/15 Report date : 15/12/2015 Ref. : Test Request Form Ref. Date : 11/12/2015 Job Order No : RE/1512/0012 Date : 11/12/2015 Date of Analysis : 11/12/2015 to 13/12/2015
Sample Particulars: One sample of Shetthalli gate palya colony near railway track borewell water.	**Sample Qty** : 300 ml

Microbiological Tests:

Sl. No.	Tests	Result	Limits Acceptable limits as per IS : 10500:2012	Protocol
Description: Colorless liquid filled in sterilized bottle.				
1	Coliform Organism / 100ml	Less than 1	Less than 1	IS 1622 – 1981
2	Escherichia coli / 100ml	Absent	Absent	IS 1622 – 1981

Remarks: The given water sample conforms to IS:10500-2012 specification for above tested parameters.

----------END OF THE REPORT----------

Ravi.N.R.
A.R.N.R

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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TEST REPORT

To,
BBMP
Asst Executive Engineer, Ward No.12,
Shtthalli Sub Division, Dasarahalli Zone,
Bangalore.

Report No.	: RE-011/15
Report date	: 15/12/2015
Ref.	: Test Request Form
Ref. Date	: 11/12/2015
Job Order No	: RE/1512/0011
Date	: 11/12/2015
Date of Analysis	: 11/12/2015 to 15/12/2015

Sample Particulars: One sample of Shetthalli Nandananagara borewell water.

Sample Qty : 2 Ltrs

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500 : 2012	Maximum Permissible Limit IS 10500 : 2012	Protocol
Description: Colorless liquid					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part – 4) : 1983
2	Odor	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5) : 1983
3	Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 8) : 1984
4	pH Value	7.65	6.5 – 8.5	No relaxation	IS 3025 (Part – 11) : 1983
5	Turbidity, NTU	0.2	1	5	IS 3025 (Part – 10) : 1984
6	Chloride as Cl, mg/L	104.5	250	1000	IS 3025 (Part – 32) : 1988
7	Total hardness as $CaCO_3$, mg/L	325.0	200	600	IS 3025 (Part – 21) : 2009
8	Calcium as Ca, mg/L	71.4	75	200	IS 3025 (Part – 40) : 1991
9	Magnesium as Mg, mg/L	35.6	30	100	IS 3025 (Part – 46) : 1994
10	Dissolved Solids, mg/L	462	500	2000	IS 3025 (Part – 16) : 1984
11	Sulphate as SO_4, mg/L	24.5	200	400	IS 3025 (Part – 24) : 1986
12	Fluoride as F, mg/L	0.33	1.0	1.5	APHA 22nd Edition
13	Chromium as Cr^+, mg/L	BDL	0.05	No relaxation	IS 3025 (Part – 52) : 2003
14	Residual Free Chlorine, mg/L	<0.2	0.2	1	IS 3025 (Part – 26) : 1986
15	Alkalinity as $CaCO_3$, mg/L	438.6	200	600	IS 3025 (Part – 23) : 1986
16	Nitrates as NO_3, mg/L	14.1	45	No relaxation	IS 3025 (Part – 34) : 1988
17	Copper as Cu, mg/L	BDL	0.05	1.5	IS 3025 (Part – 42) : 1992
18	Iron as Fe, mg/L	BDL	0.3	No relaxation	IS 3025 (Part – 53) : 2003
19	Manganese as Mn, mg/L	BDL	0.1	0.3	IS 3025 (Part – 59) : 2006
20	Phenolic compounds as C_6H_5OH, mg/L	Absent	0.001	0.002	IS 3025 (Part – 43) : 1992

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TEST REPORT

To, **BBMP** Asst Executive Engineer, Ward No.12, Shtthalli Sub Division, Dasarahalli Zone, Bangalore.	Report No. : RE-011/15 Report date : 15/12/2015 Ref. : Test Request Form Ref. Date : 11/12/2015 Job Order No : RE/1512/0011 Date : 11/12/2015 Date of Analysis : 11/12/2015 to 15/12/2015
Sample Particulars: One sample of Shetthalli Nandananagara borewell water.	
	Sample Qty : 2Ltrs

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500 : 2012	Maximum Permissible Limit IS 10500 : 2012	Protocol
21	Mercury as Hg, mg/L	BDL	0.001	No relaxation	IS 3025 (Part – 48) : 1994
22	Cadmium as Cd, mg/L	BDL	0.003	No relaxation	IS 3025 (Part – 41) : 1992
23	Selenium as Se, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 56) : 2003
24	Arsenic as As, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 37) : 1988
25	Cyanide as CN, mg/L	Absent	0.05	No relaxation	APHA 22nd Edition
26	Lead as Pb, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 47) : 1994
27	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49) : 1994
28	Anionic detergents as MBAS, mg/L	Absent	0.20	1.0	Annex K of IS : 13428 : 2005
29	Aluminum as Al,mg/L	BDL	0.03	0.2	IS : 3025 (Part –55) : 2003
30	Boron as B, mg/L	BDL	0.5	1.0	APHA 22nd Edition

Note: BDL for Cr: 0.05, Cu: 0.05, Fe: 0.05, Mn:0.05, Hg: 0.005, Cd:0.01, Se:0.005, As:0.005, Pb:0.05, Al:0.02,B:0.3,Zn:0.05.

----------END OF THE REPORT----------

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TEST REPORT

To, **BBMP** Asst Executive Engineer, Ward No.12, Shtthalli Sub Division, Dasarahalli Zone, Bangalore.	Report No. : RE-011/15 Report date : 15/12/2015 Ref. : Test Request Form Ref. Date : 11/12/2015 Job Order No : RE/1512/0011 Date : 11/12/2015 Date of Analysis : 11/12/2015 to 13/12/2015
Sample Particulars: One sample of Shetthalli Nandananagara borewell water.	**Sample Qty** : 300 ml

Microbiological Tests:

Sl. No.	Tests	Result	Limits Acceptable limits as per IS : 10500:2012	Protocol
Description: Colorless liquid filled in sterilized bottle.				
1	Coliform Organism / 100ml	Less than 1	Less than 1	IS 1622 – 1981
2	Escherichia coli / 100ml	Absent	Absent	IS 1622 – 1981

Remarks: The given water sample conforms to IS:10500-2012 specification for above tested parameters.

----------END OF THE REPORT----------

Ravi. N.K, AEW.12

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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TEST REPORT

To, **BBMP** Asst Executive Engineer, Ward No.12, Shtthalli Sub Division, Dasarahalli Zone, Bangalore.	Report No. : RE-016/15 Report date : 15/12/2015 Ref. : Test Request Form Ref. Date : 11/12/2015 Job Order No : RE/1512/0016 Date : 11/12/2015 Date of Analysis : 11/12/2015 to 15/12/2015
Sample Particulars: One sample of Shetthalli AVR layout borewell water.	
	Sample Qty : 2 Ltrs

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500 : 2012	Maximum Permissible Limit IS 10500 : 2012	Protocol
Description: Colorless liquid					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part – 4) : 1983
2	Odor	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5) : 1983
3	Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 8) : 1984
4	pH Value	6.9	6.5 – 8.5	No relaxation	IS 3025 (Part – 11) : 1983
5	Turbidity, NTU	0.2	1	5	IS 3025 (Part – 10) : 1984
6	Chloride as Cl, mg/L	237.5	250	1000	IS 3025 (Part – 32) : 1988
7	Total hardness as $CaCO_3$, mg/L	162.5	200	600	IS 3025 (Part – 21) : 2009
8	Calcium as Ca, mg/L	31.73	75	200	IS 3025 (Part – 40) : 1991
9	Magnesium as Mg, mg/L	20.2	30	100	IS 3025 (Part – 46) : 1994
10	Dissolved Solids, mg/L	398	500	2000	IS 3025 (Part – 16) : 1984
11	Sulphate as SO_4, mg/L	10.63	200	400	IS 3025 (Part – 24) : 1986
12	Fluoride as F, mg/L	0.25	1.0	1.5	APHA 22nd Edition
13	Chromium as Cr^+, mg/L	BDL	0.05	No relaxation	IS 3025 (Part – 52) : 2003
14	Residual Free Chlorine, mg/L	<0.2	0.2	1	IS 3025 (Part – 26) : 1986
15	Alkalinity as $CaCO_3$, mg/L	154.8	200	600	IS 3025 (Part – 23) : 1986
16	Nitrates as NO_3, mg/L	5.85	45	No relaxation	IS 3025 (Part – 34) : 1988
17	Copper as Cu, mg/L	BDL	0.05	1.5	IS 3025 (Part – 42) : 1992
18	Iron as Fe, mg/L	BDL	0.3	No relaxation	IS 3025 (Part – 53) : 2003
19	Manganese as Mn, mg/L	BDL	0.1	0.3	IS 3025 (Part – 59) : 2006
20	Phenolic compounds as C_6H_5OH, mg/L	Absent	0.001	0.002	IS 3025 (Part – 43) : 1992

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TEST REPORT

To,	
BBMP	Report No. : RE-016/15
Asst Executive Engineer, Ward No.12,	Report date : 15/12/2015
Shtthalli Sub Division, Dasarahalli Zone,	Ref. : Test Request Form
Bangalore.	Ref. Date : 11/12/2015
	Job Order No : RE/1512/0016
	Date : 11/12/2015
	Date of Analysis : 11/12/2015 to 15/12/2015
Sample Particulars: One sample of Shetthalli AVR layout borewell water.	
	Sample Qty : 2Ltrs

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500 : 2012	Maximum Permissible Limit IS 10500 : 2012	Protocol
21	Mercury as Hg, mg/L	BDL	0.001	No relaxation	IS 3025 (Part – 48) : 1994
22	Cadmium as Cd, mg/L	BDL	0.003	No relaxation	IS 3025 (Part – 41) : 1992
23	Selenium as Se, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 56) : 2003
24	Arsenic as As, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 37) : 1988
25	Cyanide as CN, mg/L	Absent	0.05	No relaxation	APHA 22nd Edition
26	Lead as Pb, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 47) : 1994
27	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49) : 1994
28	Anionic detergents as MBAS, mg/L	Absent	0.20	1.0	Annex K of IS : 13428 : 2005
29	Aluminum as Al,mg/L	BDL	0.03	0.2	IS : 3025 (Part –55) : 2003
30	Boron as B, mg/L	BDL	0.5	1.0	APHA 22nd Edition

Note: BDL for Cr: 0.05, Cu: 0.05, Fe: 0.05, Mn:0.05, Hg: 0.005, Cd:0.01, Se:0.005, As:0.005, Pb:0.05, Al:0.02,B:0.3,Zn:0.05.

----------END OF THE REPORT----------

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Subhashini B.V.

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KSPCB 'A' GRADE ACCREDITED LABORATORY AIR & WATER

TEST REPORT

To, BBMP Asst Executive Engineer, Ward No.12, Shtthalli Sub Division, Dasarahalli Zone, Bangalore.	Report No. : RE-016/15 Report date : 15/12/2015 Ref. : Test Request Form Ref. Date : 11/12/2015 Job Order No : RE/1512/0016 Date : 11/12/2015 Date of Analysis : 11/12/2015 to 13/12/2015
Sample Particulars: One sample of Shetthalli AVR layout borewell water.	**Sample Qty** : 300 ml

Microbiological Tests:

Sl. No.	Tests	Result	Limits Acceptable limits as per IS : 10500:2012	Protocol
Description: Colorless liquid filled in sterilized bottle.				
1	Coliform Organism / 100ml	Less than 1	Less than 1	IS 1622 – 1981
2	Escherichia coli / 100ml	Absent	Absent	IS 1622 – 1981

Remarks: The given water sample conforms to IS:10500-2012 specification for above tested parameters.

----------END OF THE REPORT----------

Raaei. N.K,
- AE W-12

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

Authorized Signatory

SubhashiniB.V.

Note: 1. The results relate only to the items tested. 2. Test certificate should not be reproduced except in full, without written approval of the laboratory. 3. The submitted samples are not drawn by the laboratory unless otherwise specified. 4. Endorsement of product is neither inferred nor implied. 5.Samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified. 6. This report cannot be used as an evidence in the court of law & should not be used in any advertising media without our special permission in writing. 7 Total liability of our lab is limited to the invoice amount And any dispute arising out of this report is subject to Bangalore jurisdiction only.

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AIR & WATER

TEST REPORT

To,
BBMP
Asst Executive Engineer, Ward No.12,
Shtthalli Sub Division, Dasarahalli Zone,
Bangalore.

Report No.	: RE-013/15
Report date	: 15/12/2015
Ref.	: Test Request Form
Ref. Date	: 11/12/2015
Job Order No	: RE/1512/0013
Date	: 11/12/2015
Date of Analysis	: 11/12/2015 to 15/12/2015

Sample Particulars: One sample of Shetthalli Chandappa layout borewell water.

Sample Qty : 2 Ltrs

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500 : 2012	Maximum Permissible Limit IS 10500 : 2012	Protocol
Description: Colorless liquid					
1	Color (hazen units)	<2.0	5	15	IS 3025 (Part – 4) : 1983
2	Odor	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 5) : 1983
3	Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part – 8) : 1984
4	pH Value	7.45	6.5 – 8.5	No relaxation	IS 3025 (Part – 11) : 1983
5	Turbidity, NTU	0.1	1	5	IS 3025 (Part – 10) : 1984
6	Chloride as Cl, mg/L	95.0	250	1000	IS 3025 (Part – 32) : 1988
7	Total hardness as $CaCO_3$, mg/L	372.6	200	600	IS 3025 (Part – 21) : 2009
8	Calcium as Ca, mg/L	80.9	75	200	IS 3025 (Part – 40) : 1991
9	Magnesium as Mg, mg/L	41.4	30	100	IS 3025 (Part – 46) : 1994
10	Dissolved Solids, mg/L	440	500	2000	IS 3025 (Part – 16) : 1984
11	Sulphate as SO_4, mg/L	19.3	200	400	IS 3025 (Part – 24) : 1986
12	Fluoride as F, mg/L	0.28	1.0	1.5	APHA 22nd Edition
13	Chromium as Cr^+, mg/L	BDL	0.05	No relaxation	IS 3025 (Part – 52) : 2003
14	Residual Free Chlorine, mg/L	<0.2	0.2	1	IS 3025 (Part – 26) : 1986
15	Alkalinity as $CaCO_3$, mg/L	408.5	200	600	IS 3025 (Part – 23) : 1986
16	Nitrates as NO_3, mg/L	11.3	45	No relaxation	IS 3025 (Part – 34) : 1988
17	Copper as Cu, mg/L	BDL	0.05	1.5	IS 3025 (Part – 42) : 1992
18	Iron as Fe, mg/L	BDL	0.3	No relaxation	IS 3025 (Part – 53) : 2003
19	Manganese as Mn, mg/L	BDL	0.1	0.3	IS 3025 (Part – 59) : 2006
20	Phenolic compounds as C_6H_5OH, mg/L	Absent	0.001	0.002	IS 3025 (Part – 43) : 1992

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TEST REPORT

To, **BBMP** Asst Executive Engineer, Ward No.12, Shtthalli Sub Division, Dasarahalli Zone, Bangalore.	Report No. : RE-013/15 Report date : 15/12/2015 Ref. : Test Request Form Ref. Date : 11/12/2015 Job Order No : RE/1512/0013 Date : 11/12/2015 Date of Analysis : 11/12/2015 to 15/12/2015
Sample Particulars: One sample of Shetthalli Chandappa layout borewell water.	
	Sample Qty : 2Ltrs

Sl. No.	Tests	Results	Maximum Desirable Limit IS 10500 : 2012	Maximum Permissible Limit IS 10500 : 2012	Protocol
21	Mercury as Hg, mg/L	BDL	0.001	No relaxation	IS 3025 (Part – 48) : 1994
22	Cadmium as Cd, mg/L	BDL	0.003	No relaxation	IS 3025 (Part – 41) : 1992
23	Selenium as Se, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 56) : 2003
24	Arsenic as As, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 37) : 1988
25	Cyanide as CN, mg/L	Absent	0.05	No relaxation	APHA 22nd Edition
26	Lead as Pb, mg/L	BDL	0.01	No relaxation	IS 3025 (Part – 47) : 1994
27	Zinc as Zn, mg/L	BDL	5	15	IS 3025 (Part – 49) : 1994
28	Anionic detergents as MBAS, mg/L	Absent	0.20	1.0	Annex K of IS : 13428 : 2005
29	Aluminum as Al,mg/L	BDL	0.03	0.2	IS : 3025 (Part –55) : 2003
30	Boron as B, mg/L	BDL	0.5	1.0	APHA 22nd Edition

Note: BDL for Cr: 0.05, Cu: 0.05, Fe: 0.05, Mn:0.05, Hg: 0.005, Cd:0.01, Se:0.005, As:0.005, Pb:0.05, Al:0.02,B:0.3,Zn:0.05.

----------END OF THE REPORT----------

Authorized Signatory

Subhashini B.V.

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TEST REPORT

To, **BBMP** Asst Executive Engineer, Ward No.12, Shtthalli Sub Division, Dasarahalli Zone, Bangalore.	Report No. : RE-013/15 Report date : 15/12/2015 Ref. : Test Request Form Ref. Date : 11/12/2015 Job Order No : RE/1512/0013 Date : 11/12/2015 Date of Analysis : 11/12/2015 to 13/12/2015
Sample Particulars: One sample of Shetthalli Chandappa layout borewell water..	**Sample Qty** : 300 ml

Microbiological Tests:

Sl. No.	Tests	Result	Limits Acceptable limits as per IS : 10500:2012	Protocol
Description: Colorless liquid filled in sterilized bottle.				
1	Coliform Organism / 100ml	Less than 1	Less than 1	IS 1622 – 1981
2	Escherichia coli / 100ml	Absent	Absent	IS 1622 – 1981

Remarks: The given water sample conforms to IS:10500-2012 specification for above tested parameters.

----------END OF THE REPORT----------

Ravi-N.K.
AE W-12

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ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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